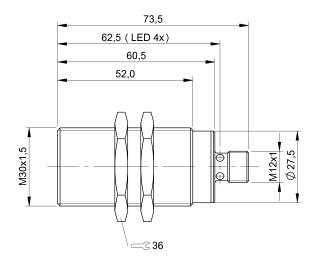
# **Inductive Sensors** BES M30MI1-POC22B-S04G **Order Code: BES02YL**

# BALLUFF







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#### **Basic features**

Approval/Conformity	CE cULus EAC WEEE
Basic standard	IEC 60947-5-2
Display/Operation	
Function indicator	yes
Power indicator	no
Electrical connection	
Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

## **Electrical data**

Load capacitance max. at Ue	1μF
Min. operating current Im	0 mA
No-load current lo max., damped	10 mA
No-load current lo max., undamped	10 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	47.0 kOhm
Rated insulation voltage Ui	75 V DC
Rated operating current le	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	200 ms
Residual current Ir max.	100 µA
Ripple max. (% of Ue)	20 %
Switching frequency	200 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

## **Environmental conditions**

Ambient temperature	-2570 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
Protection degree	IP67

### **Functional safety**

MTTF (40 °C)

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eCl@ss 9.1: 27-27-01-01 ETIM 6.0: EC002714 BES02YL\_0.24\_2020-03-05

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#### Material

Material		Output/Interface	
Housing material	Brass, Chrome-plated	Switching output	PNP normally closed (NC)
Material sensing surface	PBT		
Surface protection	Chrome-plated	Range/Distance	
		Assured operating distance Sa	17.6 mm
Mechanical data		Hysteresis H max. (% of Sr)	10.0 %
Dimension	Ø 30 x 73.5 mm	Rated operating distance Sn	22 mm
Installation	quasi-flush	Real switching distance sr	22 mm
Size	M30x1.5	Repeat accuracy max. (% of Sr)	5.0 %
Tightening torque	70 Nm	Switching distance marking	
		Temperature drift max. (% of Sr)	10 %
		Tolerance Sr	±10 %

#### Remarks

The sensor is functional again after the overload has been eliminated. Quasi-flushed: See installation instructions for inductive sensors with extended range 825356. For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

## **Connector Drawings**



# Wiring Diagrams

